



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/620,273
Applicant: Collins, *et al.*
Filed: July 15, 2003
TC/A.AU.: Unassigned
Examiner: Unassigned

Confirmation No.: Unassigned

Docket No.: 07959.105018 COP 1000 DIV 5
Customer No.: 20786
Title: Radionuclide Labeling of Vitamin B₁₂ and Coenzymes Thereof

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

The citation of information on the attached Form PTO-1449, "List of Art Cited by Applicant" is made pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98. A copy of reference nos. BP-BU and CM is enclosed; for all other cited references a copy was submitted previously with one of the following parent applications: 08/557,955, now issued as U.S. patent 5,739,313; and 09/626,213, now issued as U.S. patent 6,613,305. The Examiner's attention is drawn to U.S.S.N. 09/690,197, Collins *et al.*, filed October 16, 2000.

The citation of this information does not constitute an admission of priority or that any cited item is available as a reference, or a waiver of any right the applicant may have under applicable statutes, Rules of Practice in patent cases, or otherwise.

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Respectfully submitted,

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Substitute for form 1449A/PTO			OCT 31 2003		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)					Application Number	10/620,273
					Filing Date	July 15, 2003
					First Named Inventor	Collins, t al.
					Group Art Unit	Unassigned
					Examiner Name	Unassigned
Sheet	1	of	4	Attorney Docket Number	07959.105018 COP 1000 DIV 5	

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
	AA	3,936,440		NATH	02-03-1976	
	AB	3,981,863		NISWENDER, et al.	09-21-1976	
	AC	4,209,614		BERNSTEIN, et al.	06-24-1980	
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	AJ	5,428,023		RUSSELL-JONES, et al.	06-27-1995	
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	AZ	6,315,978		GRISSOM, et al.	11-13-01	
	AAA	6,613,305		COLLINS, et al.	09-02-2003	

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				Filing Date	July 15, 2003
				First Named Inventor	C. Ilins, et al.
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
				Attorney Docket Number	07959.105018 COP 1000 DIV 5
Sheet	2	of	4		

FOREIGN PATENT DOCUMENTS								
Examiner Initials *	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number	Kind Code ² (if known)				
	BA	EP	0005834		BERNSTEIN, <i>et al.</i>	12-12-1979		
	BB	JP	58-046027		AKIRA, <i>et al.</i>	09-14-1981		
	BC	EP	0069450		HOUTS	01-12-1983		
	BD	EP	0165716		OLSON, <i>et al.</i>	12-27-1985		
	BE	WO	89/01475		PARKER, <i>et al.</i>	02-23-1989		
	BF	WO	92/13571		WILSON, <i>et al.</i>	08-20-1992		
	BG	WO	94/27613		RUSSELL-JONES, <i>et al.</i>	12-08-1994		
	BH	WO	94/27641		RUSSELL-JONES, <i>et al.</i>	12-08-1994		
	BI	WO	95/27723		MORGAN, <i>et al.</i>	10-19-1995		
	BJ	WO	96/31243		EDWARDS, <i>et al.</i>	10-10-1996		
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	BM	WO	98/08859		GRISSOM, <i>et al.</i>	03-05-1998		
	BN	WO	99/65930		RUSSELL-JONES, <i>et al.</i>	12-23-1999		
	BO	WO	01/30967		GRISSOM, <i>et al.</i>	05-03-2001		
	BP	WO	01/28592		COLLINS, <i>et al.</i>	04-26-2001		
	BQ	WO	01/28595		COLLINS, <i>et al.</i>	04-26-2001		
	BR	WO	01/17694		COLLINS, <i>et al.</i>	12-06-2001		
	BS	WO	01/92288		COLLINS, <i>et al.</i>	12-06-2001		
	BT	WO	02/42318		COLLINS, <i>et al.</i>	05-30-2002		
	BU	WO	02/55530		COLLINS, <i>et al.</i>	07-18-2002		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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	BV	ALVAREZ, J., et al., "On a new radiopharmaceutical for kidney imaging", <i>Int'l J. of Applied Radiation and Isotopes</i> , 25, 283-284 (1974).	

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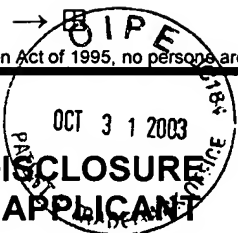
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		Filing Date		July 15, 2003	
		First Named Inventor		Collins, et al.	
		Group Art Unit		Unassigned	
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Sheet	3	of	4	Attorney Docket Number 07959.105018 COP 1000 DIV 5	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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	CA	AMAGASAKI, T., et al., "Expression of transcobalamin II receptors by human leukemia K562 and HL-60 cells", <i>Blood</i> , 76, 1380-1386 (October, 1990).	
	CB	ANDERSON, C.J., et al., "Preparation, biodistribution and dosimetry of copper-64-labeled anti-colorectal carcinoma monoclonal antibody fragments 1A3-F(ab') ₂ ", <i>J. Nuc. Med.</i> , 36, 850-858 (May 1985).	
	CC	ANTON, D.L., et al., "Carbon-13 nuclear magnetic resonance studies of the monocarboxylic acids of cyanocobalamin, assignments of the b-, d-, and 3-monomer carboxylic acids", <i>J. Am. Chem. Soc.</i> , 102, 2215-2219 (March, 1980)	
	CD	ANTON, D.L., et al., "The synthesis and properties of four spin-labeled analogs of adenosylcobalamin", <i>J. Biol. Chem.</i> , 255, 4507-4510 (May, 1980).	
	CE	BEGLEY, J.A., et al., "Cobalamin metabolism in cultured human chorionic villus cells", <i>J. Cell. Physiol.</i> , 156, 43-47 (1993).	
	CF	BLOMQUIST, L., et al., "Uptake of labeled vitamin B21 and 4-iodophenylalanine in some tumours of mice", <i>Experientia</i> , 25, 294, 296 (1969).	
	CG	COOPER, B.A., et al., "Selective uptake of specifically bound cobalt-58 vitamin B12 by human and mouse tumour cells", <i>Nature</i> , 191, 393-395 (July, 1961).	
	CH	COOPERMAN, J.M., "Distribution of radioactive and nonradioactive vitamin B12 in normal and malignant tissues of an infant with neuroblastoma", <i>Cancer Research</i> , 32, 167-172 (January, 1972).	
	CI	COOPERMAN, J.M., et al., "Distribution of radioactive and nonradioactive vitamin B12 in the dog", <i>J. Biol. Chem.</i> , 235, 191-194 (January, 1960).	
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	CK	FLODTH, et al., "Accumulation of labeled vitamin B12 in some transplanted tumours", <i>Int. J. Cancer</i> , 3, 694-499 (1968).	
	CL	KAPLAN, M.A., et al., "Absorption studies of 59Fe and 58Co vitamin B12 by whole-body radiometry in the radiation therapy of collum carcinoma", <i>Radiobiol. Radiother.</i> , 24, Abstract 745 (1983).	
	CM	KIKUGAWA, K., et al., "Direct halogenation of sugar moiety of nucleosides", <i>Tetrahedron Letters</i> , 2, 87-97 (1971).	
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	CO	LINDEMANS, J., et al., "Uptake of transcobalamin II-bound cobalamin by HL-60 cells: effect of differentiation induction", <i>Experimental Cell Research</i> , 184, 449-460 (1989).	

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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	DA	PONTO, J.A., "II. Schilling Test", in <i>Pharmaceutical in Medical Imaging</i> , D.P. Swanson, et al., (eds.), MacMillan Publishing Co., Inc., New York, pp. 621-628 (1990).	
	DB	SMELTZER, et al., "Synthesis and characterization of fluorescent cobalamin (cobalafluor) derivatives for imaging, <i>Organic Letters</i> , 3(6), 799-801 (2001).	
	DC	VARES, Y.V., et al., "Kinetic of 57 Co-cyanocobalamin distribution in organs and tissues of mice with transplanted tumours", <i>Eksp. Onkol</i> , 8, Abstract, 33-36 (1986).	
	DD	WILBUR, et al., "Biotin Reagents for Antibody Pretargeting. 4. Selection of Biotin Conjugates for in Vivo Application Based on Their Dissociation Rate from Avidin and Streptavidin." <i>Bioconjugate Chem.</i> , 11(4), 569-583 (June 29, 2000).	
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	DG	WU, C., et al., "Investigation of N-linked macrocycles for 111In and 90Y labeling of proteins, <i>Nucl. Med. Biol.</i> , 19, 239-244 (1992).	

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